

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Canceled).
2. (Currently amended) A data processing system for executing a program on the basis of commands and processing data, comprising:
 - a command unit for sending commands;
 - a processing unit for recording a program; and
 - an access unit for accessing a recording medium for both reading and recording the data, wherein said access unit includes means for sending to said processing unit inventory information including data identifying information for identifying and position information indicating a recording position of the data recorded in the recording medium,
 - said command unit includes means for sending to said processing unit commands including program identifying information for identifying the program and information used for identifying the data,
 - said processing unit includes:
 - a data table for recording the data identifying information and the position information caused to correspond to each other;
 - a first program table for recording the data identifying information of the data related to the process of the program in association with the program identifying information;
 - a second program table for recording the program in association with the program identifying information;
 - means for recording to said data table the position information and the data identifying information included in the inventory information received from said access unit;

means for extracting from the data table the position information corresponding to the information used for identifying the data and the data identifying information on the basis of the information used for identifying the data included in the command and the data identifying information recorded to the first program table in associated with the program identifying information included in the command received from said command unit; and

means for sending to said access unit data requirement for requiring a feed of the data recorded in the recording position indicated by the extracted position information,

said access unit further includes:

means for reading the data from the recording medium on the basis of the data requirement received; and

means for sending the read data to said processing unit, and

said processing unit further includes:

means for extracting from the second program table the program identified by the program identifying information included in the command received from said command unit; and

means for executing the extracted program and processing the data received from said access unit, and

~~wherein the command unit, processing unit and access unit are independent of each other,~~

~~wherein an owner of the data controls access to the data for the program by controlling access to the recording medium and~~

~~wherein only the program, program identifying information and data identifying information are recorded in the processing unit~~

wherein input data and output data that result from execution of the program are determined in the first program table in advance.

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3. (Previously Presented) The data processing system according to claim 2, wherein the inventory information sent from said access unit includes an owner identifying information for identifying the owner of the data,

the information used for identifying the data included in the command sent from said command unit is the owner identifying information, and

the position information, the data identifying information and the owner identifying information included in the inventory information is recorded on said data table.

4. (Previously Presented) The data processing system according to claim 2 wherein the data identifying information to be assigned to the data that are a result from the execution of the program is recorded in said first program table in correspondence with the program identifying information,

said processing unit further includes means for sending to said access unit the data that are the result of the execution of the program and the data identifying information to be assigned to the data on the basis of the first program table, and

said access unit further includes means for recording the received data and the data identifying information to the recording medium.

5. (Canceled).

6. (Canceled).

7. (Canceled).

8. (Canceled).

9. (Canceled).

10. (Canceled).

11. (Currently Amended) A data processing apparatus for executing a program on the basis of commands and processing data, provided with means for communicating with another apparatus, comprising:

means for receiving position information for indicating a recording position of the data;

means for receiving a command including program identifying information for identifying the program;

means for requiring a feed of the data that corresponds to the program identifying information included in commands received and recorded in the recording position indicated by the position information received; and

means for executing the program identified by the program identifying information included in the command received and processing the data received,

wherein an owner of the data controls access to the data, ~~and~~

wherein only the program, program identifying information and data identifying information are recorded in the processing unit, and

wherein input data and output data that result from execution of the program are determined in the first program table in advance.

12. (Canceled).

13. (Previously presented) The data processing system according to claim 3, wherein the data identifying information to be assigned to the data that are a result from the execution of the program is recorded in said first program table in correspondence with the program identifying information,

said processing unit further includes means for sending to said access unit the data that are the result of the execution of the program and the data identifying information to be assigned to the data on the basis of the first program table, and

said access unit further includes means for recording the received data and the data identifying information to the recording medium.

14. (Canceled).
15. (Previously presented) The data processing system according to claims 2, wherein the data recorded to the recording medium are ciphered data and
said processing unit further includes:
means for ciphering the data; and
means for deciphering the ciphered data.
16. (Previously presented) The data processing system according to claim 3, wherein the data recorded to the recording medium are ciphered data and
said processing unit further includes:
means for ciphering the data; and
means for deciphering the ciphered data.
17. (New) The data processing system according to claim 3 wherein the data identifying information to be assigned to the data that are a result from the execution of the program is recorded in said first program table in correspondence with the program identifying information,
said processing unit further includes means for sending to said access unit the data that are the result of the execution of the program and the data identifying information to be assigned to the data on the basis of the first program table, and
said access unit further includes means for recording the received data and the data identifying information to the recording medium.
18. (New) The data processing system according to claim 17, wherein the data recorded to the recording medium are ciphered data and
said processing unit further includes:
means for ciphering the data; and
means for deciphering the ciphered data.

19. (New) A processing apparatus which comprises communication means for communicating with another apparatus, and which executes a recorded program and processes data on the basis of a command, the processing apparatus wherein said communication means being configured so as to communicate with a command unit for transmitting a command, and an access unit for accessing a recording medium that records data; and comprising:

- a data table for recording data identifying information and position information caused to correspond to each other; a first program table for recording data identifying information of data related to the processing of a programs association with the program identifying information;

- a second program table for recording a program in association with the program identifying information,

- means for receiving from said access unit inventory information including identifying information for identifying data recorded on said recording medium and position information indicating the recording positions of the data;

- means for recording to said data table the position information and the data identifying information included in the inventory information received from said access unit;

- means for receiving from said command unit a command that includes program identifying information for identifying a program and information used for identifying the data;

- means for extracting from the data table data identifying information and position information that corresponds-to-the information used far identifying the data on the basis of the identifying information recorded in the first program table in association with the program identifying information included in the command received from said command unit, and information used for identifying the data included in the command;

- means for sending to said access unit a data requirement for requiring a feed of the data recorded in the recording positions indicated by the extracted position information;

- means for receiving data for the data requirement from said access unit;

- means for extracting from the second program table a program identified by the program identifying information included in the command received from said command unit; and

- means for executing the extracted program and processing the data received from said access unit,

wherein input data and output data that result from execution of the program are determined in the first program table in advance.

20. (New) A computer program which causes a computer comprising a communication means for communicating with a command unit for sending a command, and an access unit for accessing a recording medium on which data are recorded, to execute a program based on the command and to process data, said computer program characterized in executing the steps of:

- causing the computer to correlate and record in a data table data identifying information and position information included in the inventory information received from said access unit;

- causing the computer to refer to a first program table in which the data identifying information for data related to the processing of the program have been recorded in advance in association with the program identifying information, and to extract from the data table position information that corresponds to the information used for identifying the data on the basis of the identifying information recorded in the first program table in association with the program identifying information included in the command received from said command unit, and information used for identifying the data included in the command; and

- causing the computer to send to said access unit a data requirement for requiring a feed of the data recorded in the recording positions indicated by the extracted position information, in a case in which said communication means receives from said command unit the inventory information including identifying information for identifying data recorded on said recording medium and position information for indicating the recording position of the data are received from said access unit, and a command including the program identifying information for identifying the program and the information used for identifying the data; and the steps of:

- causing the computer to extract a program identified by the program identifying information included in the received command from a second program table in which the program identifying information and a program have been correlated and recorded in advance; and

causing the computer to execute the extracted program, and to process the data received from said access unit, in a case in which data for the data requirement is received from said access unit,

wherein input data and output data that result from execution of the program are determined in the first program table in advance.